



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380

NORMAL

TI-4733-15/21A
9 Mar 98

U.S. MARINE CORPS TECHNICAL INSTRUCTION

SURVEY INSTRUMENT CALIBRATION PROGRAM (SICP)

Encl: (1) Mailing and Shipping Addresses for Marine Corps Logistics Bases (MCLB),
Metrology Business Center, Multi-Commodity Maintenance Center, Albany, Georgia
(2) Using Unit Shipping Addresses with Month for Calibration
(3) Sample DD Form 1149

1. Purpose. To provide instructions and procedures for operation of the Marine Corps SICP.

2. Cancellation. TI-4733-15/21

3. Information

a. Surveying equipment, located throughout the Marine Forces (MARFOR), has become extremely compact and complex due to advances in technology, design and manufacturing. Sophisticated Test, Measurement and Diagnostic Equipment (TMDE) and extensive training in electronics and electro-optics are required to accomplish the repair and calibration of this equipment.

b. Evacuation of this equipment to the MARFOR calibration facilities for repair and calibration is not a viable option due to the level of maintenance required, lack of repair parts, lack of special purpose TMDE and requisite maintenance skill level. The extensive turn around time for evacuation of this type equipment to a depot for repair and calibration compromises unit readiness to the degree that an alternate maintenance concept must be established. This maintenance concept is defined as the SICP.

c. The SICP has been developed to provide MARFOR using units a mode of ensuring timely repair and calibration of surveying equipment. MCLB Albany has been designated as the SICP support activity for surveying equipment identified here and will calibrate/repair only those SICP items listed in this TI, unless otherwise directed by Commander, Marine Corps Systems Command (COMMARCORSSYSCOM), TMDE/CTMS.

16747104300



TI-4733-15/21A

d. Informal communication between MARFOR using and Metrology Business Center (Code 884), MCLB, Albany, relating to surveying equipment or the SICP is encouraged. The commercial telephone number for the SICP is (912) 439-5393/5395. The Defense Switched Network (DSN) number is 567-5393/5395. The DSN facsimile transmission number is 567-6172. The Internet e-mail address is SICP@ala.usmc.mil. The mailing address is in Enclosure (l).

4. Major Items Affected

<u>Description</u>	<u>NSN</u>	<u>TAMCN</u>	<u>ID #</u>
SURVEYING SET, Artillery Fire Control	6675-01-088-3182	E1845	08296A
SURVEYING SET, Artillery Battalion	6675-01-088-3179	E1846	08295A
SURVEYING SET, Geodetic	6675-01-361-1355 6675-01-088-3181	B2118 B2188	09729A 08297A
SURVEY SET, General Purpose	6675-01-273-7812	B2120	09130A
METEOROLOGICAL SET, Visual, AN/TMQ-7	6660-00-574-6035	E1036	00098A
SURVEY SET, HYDROGRAPHIC	6675-01-361-4841	B2122	09727A
METEOROLOGICAL STATION, GROUP AN/TMQ-49	6660-01-428-9218	E1035	10269A
THEODOLITE, ELECT METEOROLOGICAL AN/PMN- 1	6660-01-445-4594	N/A	10412A
NORTH FINDING MODULE* NIX- 18204/GSQ	6675-01-179-2982	E1049	08911A

*North Finding Modules used as a component of the AN/PAQ-3 Modular Universal Laser Equipment (MULE) do not require calibration and are not supported by the SICP. North Finding Modules used for other purposes are supported by the SICP for calibration only.

5. Components affected. The following list consists of items that require calibration and shall be inclusive of this calibration program regardless of national stock number, part number or model number. These items are components of survey sets. Some individual units require like items that will come under one of these categories, which are included in the SICP.

- a. Alidade, Surveying, Self Reducing
- b. Anemometer
- c. Barometer, Aneroid *
- d. Carrier, Target Plate and Target Sets/Tribrach
- e. Electronic Distance Measuring Equipment
- f. Level, Surveying, Automatic or Dumpy
- g. Psychrometer, Battery Operated or Sling Type *
- h. Test Set, Soil Trafficability
- i. Theodolite, Surveying or Meteorological
- j. Thermometer*
- k. Transit, Surveying
- l. Transit, TT400

*These items of TMDE are included in the SICP for units supported by MARFOR Calibration Facilities (CF). If possible, owning units should submit these to the nearest CF for repair/calibration.

6. Action

a. COMMARCORSSYSCOM

(1) PM, TMDE/CTMS

(a) Develop and publish policy guidance and technical direction for the SICP.

(b) Budget and fund for SICP operations.

(c) In coordination with PM, CBG establish pool items and quantities.

(2) PM, CBG/F

(a) Establish pool items and quantities.

(b) Budget and fund for the purchase of items placed in the SICP as well as for all training of depot personnel in the area of calibration/repair of supported SICP items.

b. Commander (Code 884). Marine Corps Logistics Bases. Albany

(1) Maintain a pool of serviceable surveying instruments of the types and quantities necessary to perform an annual calibration with using units listed in Enclosure (2). When an instrument supported by the SICP is determined to be beyond economical repair or otherwise non-repairable, provide to the using unit a Letter of Unserviceable Property (LUP), and coordinate with cognizant Integrated Logistic Support item managers and the using unit to obtain a replacement item

(2) If the SICP does not have sufficient assets to effect calibration shipment as scheduled, provide instructions to using units for obtaining calibration and return services.

(3) Provide to the COMMARCORSYSCOM, TMDE/CTMS any recommendations for enhancing the technical or operational aspects of the SICP.

(4) On an as required basis, submit recommended updates to this Technical Instruction (TI) to reflect the addition/deletion of items supported to COMMARCORSYSCO~TMDE/CTMS for approval.

(5) Introduce no new items into SICP without prior approval of COMMARCORSYSCOM, TMDE/CTMS.

(6) Perform required repair and calibration of all surveying instruments in accordance with approved calibration procedures.

(7) Provide survey instrument calibration support to using units in accordance with the schedule provided in Enclosure (2) or upon notification that an instrument is suspect or unserviceable due to malfunction or damage.

(a) Use exact shipping address provided in Enclosure (2).

(b) Ship all SICP items in easily identifiable, reusable shipping containers. The combined weight of the shipping container and enclosed items shall not exceed 560 pounds.

(8) Apply the stamp, shown in Figure 1, on the second copy of the shipping invoice (DD Form 1149). When this copy is signed by a responsible person, it will provide proof of receipt and custody of SICP items from the calibration pool. Each shipping container shall be packed with the calibration pool items and shipping invoice.

Consignee Is Requested To Sign
And Return On Receipt of Equipment Listed

Signature	Date
Rank	Title

Figure 1. Certification Stamp

(9) A Copy of the DD Form 1149 will be mailed to the MARFOR using unit at the time a SICP shipment is processed.

(10) Ship SICP items under a Priority 03 based on a Force/Activity Designator of III and an urgency of need designator of two (2) as directed by the current edition of MCO 4400.16. In all cases, the Required Delivery Date (RDD) will be 15 days. SICP validation for air movement via Military Airlift Command (MAC) is authorized for all shipments to and from MARFOR units outside the Continental United States (CONUS). TP-2 applies for MAC shipments with a designated RDD.

(11) All SICP items shall be shipped by TRACEABLE MEANS ONLY.

c. MARFOR Using Units

(1) Upon receipt of a SICP shipment, take the following action as appropriate.

(a) Examine the reusable shipping container and each item within for damage caused by mishandling during shipment.

(b) Upon opening the shipping container, note the arrangement of each SICP item and all shock absorbent material before removal of contents.

(c) Remove the shipping invoice. After all SICP items have been removed, inspected and inventoried sign and date the shipping invoice, and mail it to the address m Enclosure (l).

(d) After the SICP items have been accepted and signed for, prepare the shipping invoice as shown m Enclosure (3) and properly pack all SICP items to be returned m the shipping container. Include any information concerning the SICP item being returned that might be helpful i.e., symptoms, problems, etc. Deliver the container(s) to the Traffic Management Officer (TMO) for shipment, using the priority designators provided m paragraph 6c(10). Air movement for return shipment of all SICP items is directed for all using units outside CONUS. Once the shipping containers have been accepted by the TMO, mail a copy of the

DD Form 1149 to MCLB, Albany, using the shipping address provided in Enclosure (1). This will alert MCLB, Albany, that the SICP shipment was received and that a return shipment has been made.

(2) If a SICP item is received in an inoperative condition, DO NOT attempt to repair, instead:

(a) Send a message to the Commander, MCLB, Albany, with passing instructions to Code 884, reporting that the item was received in an inoperative condition and an immediate replacement is required. The subject of the message shall be: Survey Instrument Calibration Program

(b) Ship the inoperative SICP item back to MCLB, Albany, within five (5) working days of message submission.

(3) If a SICP item is damaged during shipment, (carrier liability), submit a message as noted in paragraph 6b(2)(a), stating that the item was damaged during shipment and request an immediate replacement. As soon as carrier liability has been determined and procedures thereto complied with return the damaged item to MCLB, Albany, addressed in accordance with Enclosure (1).

(4) DO NOT attempt to repair a SICP item that becomes inoperable, either partially or totally, before its scheduled calibration due date, SICP items in this category shall be processed as indicated in paragraphs 6b(2)(a) and (b), noting the suspected failure if known. This does not imply that SICP items are excluded from using unit preventive maintenance programs or that user maintenance (first and second echelons) cannot be performed. It does preclude maintenance or replacement of parts which would affect the normal functional operation or compromise the calibration integrity of the SICP item. The following are examples of repair and maintenance or parts replacement which will be performed on SICP items at the using unit level

(a) Repair or replacement of power cords, cables, connectors, or other similar devices. Units are not authorized to remove/open the case on any SICP item

(b) Minor repair of hinges, latches, etc., on storage/transit cases.

(c) Replacement of fuses, batteries, etc.

(d) Cleaning of exterior lenses, displays, and mounting surfaces.

(e) Operator's adjustments on theodolites and distance measuring equipment.

6. Reserve Amicability. This TI is applicable to the Marine Corps Reserve.

BY DIRECTION OF THE COMMANDANT OF THE MARINE CORPS

OFFICIAL

A handwritten signature in black ink, reading "M.K. Hayden". The signature is written in a cursive, flowing style.

M.K. HAYDEN

Colonel, USMC

Director, Program Support

Marine Corps Systems Command

DISTRIBUTION: PCN 167 471043 00

MAILING AND SHIPPING ADDRESSES FOR
MARINE CORPS LOGISTICS BASE (MCLB)
METROLOGY BUSINESS CENTER
MULTI-COMMODITY MAINTENANCE CENTER
ALBANY, GEORGIA

MAILING ADDRESS: Marine Corps Logistics Bases
Commander (Code 884)
MARK FOR PROJECT CODE P50
814 Radford Boulevard
Albany, Georgia 31704-1128

SHIPPING ADDRESS: Marine Corps Logistics Bases
Commander (Code 884)
MARK FOR PROJECT CODE P50
Building 2235
Albany, Georgia 31704-1128

ENCLOSURE (1)

1 /(2 blank)

USING UNIT SHIPPING ADDRESSES
WITH MONTH FOR CALIBRATION

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (M00171) MWSS-171, MWSG-17 1st MAW, MARFORPAC unit 37190 FPO AP 96603-7190	B2120	1	Aug
Commanding Officer (M00172) MWSS-172, MWSG-17 1st MAW, MARFORPAC Unit 37206 FPO AP 96603-7206	B2119	1	Sep
Commanding Officer (M00207) MWSS-28, MACG-28 2nd MAW, MARFORLANT MCAS Cherry Point, NC 28533-6042	B2120	1	Jul
Commanding Officer (M00271) MWSS-271, MWSG-27 2nd MAW, MARFORLANT PSC Box 8078 MCAS Cherry Point, NC 28533	B2120	1	Aug
Commanding Officer (M00272) MWSS-272, MWSG-27 2nd MAW, MARFORLANT MCAS New River PSC Box 20132 Jacksonville, NC 28542-1032	B2120	1	Dec
Commanding Officer (M00273) MWSS-273, MWSG-27 2nd MAW, MARFORLANT MCAS Beaufort, SC 29904-6038	B2120	1	Jun

ENCLOSURE (2)

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (M00274) MWSS-274 2nd MAW, MARFORLANT PSC Box 8079 MCAS Cherry Point, NC 28533-0079	B2120	1	Oct
Commanding Officer (M00275) HQ, MWSG-27 2nd MAW, MARFORLANT MCAS Cherry Point, NC 28533-6033	B2119	1	Nov
Commanding Officer (M00371) MWSS-371, MWSG-37 3rd MAW, MARFORPAC Box 99210 MCAS Yuma, AZ 85369-9210	B2119	1	Jul
Commanding Officer (M00372) MWSS-372 MARFORPAC Box 555861 MCB Camp Pendleton, CA 92055-5861	B2120	1	Aug
Commanding Officer (M00373) MWSS-373 MARFORPAC MCAS Supply Building 313 El Toro,CA 92709-9011	B2120	1	Jan
Commanding Officer (M00374) MWSS-374, MWSG-37 3rd MAW, MARFORPAC P.O. Box 109033 Santa Anus, CA 92710-9033	B2120	1	Ott
Commanding Officer (M00376) AGSE-173, MWSG-37 3rd MAW, MARFORPAC MCAGCC 29 Palms, CA 92278-8264	B2120	1	Apr

ENCLOSURE (2

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (M00400) HQ, 4th MAW, USMCR 4400 Dauphine Street New Orleans, LA 70146-5500	B2119	1	Apr
Commanding Officer (M00510) MWSS-471, MWSG-47, 4th MAW USMCR 6201 32nd Avenue South Minneapolis, MN 55450-2899	B2120	1	May
Commanding Officer (M00512) MWSS-474, 4th MAW, USMCR Navel Base Building 101 Philadelphia, PA 19112-5081	B2120	1	Sep
Commanding Officer (M00540) MWSS-473, Det A, 4th MAW USMCR Naval Air Station South Weymouth, MS 02190-5000	B2120	1	Oct
Commanding Officer (M00542) MWSS-471, Det C MWSG-47 4th MAW, USMCR NAS Whidbey Island Oak Harbor, WA 98278-8200	B2120	1	Nov
Commanding Officer (M00820) HQ, MASS-1, MACG-28 2nd MAW MARFORLANT MCAS Cherry Point, NC 28533-6044	E 1846	1	Dec
Commanding Officer (M00825) MWSS-2, MASS-2 HQ, MACG-18 1st MAW MARFORPAC FPO AP 96603-7211	EI 846	1	Jan

ENCLOSURE (2)

Unit	TAMCN	Qty	Month of Calibration
Commanding Officer (M00830) MASS-3, MACG-38 3rd MAW MARORPAC MCAS Camp Pendleton, CA 92055-6044	E1846	1	Jul
Commanding Officer (M008590) MACS-2, MACG 28 Box 66049 Beaufort, SC 29904-6042	A1503	1	Jun
Commanding Officer (M00972) MACS-5, MAG-28 2d MAW, MARFORLANT MCAS Beaufort, SC 29904-6049	A1503	1	Aug
Commanding Officer (M00979) MACS-4, MACG-18, 1st MAW Unit 37215 FPO AP 96603-7215	A1503	1	Jan
Commanding Officer (M00982) MASS-2, MACG-18 1st MAW, MARFORPAC FPO AP 96603-8753	E1 846	1	Ott
Commanding Officer (M01149) MWSS-472, MWSG-47 4th MAW, USMCR MCAS El Toro Santa Ana, CA 92709-6080	B2120	1	May
Commanding Officer (M03025) MAG-49, Det C, M.ARESFOR Naval Air Station South Weymouth, MA02190-5000	B2120	1	Aug
Commanding Officer (M11303) HQ BTRY, 11th Marines 1st MARDIV, MARFOR Camp Pendleton CA 92055-5515	E1036 E1845	1 2	Aug Mar, Nov

ENCLOSURE (2)

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (MI 1310)	E1036	1	Feb
1st Bn, 11th Marines	E1846	2	Ott
1st MARDIV, MARFORPAC			
Camp Pendleton, CA 92055-5516			
Commanding Officer (MI 1320)	E1036	1	Nov
2nd Bn, 11th Marines	E1846	2	Mar
1st MARDIV, MARFORPAC			
Box 555524			
Camp Pendleton CA 92055-5524			
Commanding Officer (MI 1330)	E1846	2	Apr, Jun
3rd Bn, 11th Marines			
1st MARDIV, MARFORPAC			
Box 788264			
MCAGCC 29 Palms, CA 92278-8264			
Commanding Officer (MI 1340)	E1036	1	Jun
5th Bn, 11th Marines	E1846	2	May, Jun
1st MARDIV, MARFORPAC			
Camp Pendleton CA 92055-5534			
Commanding Officer (MI 1400)	B2119	1	Feb
1st Cbt Engr Bn			
1st MARDIV, MARFORPAC			
Camp Pendleton CA 92055-5519			
Commanding Officer (M12301)	E1036	1	Ott
Hq Btry, 10th Marines	E1845	2	Jan, Feb
2nd MARDIV, MARFORLANT			
PSC Box 20105			
Camp Lejeune, NC 28542-0105			
Commanding Officer (M12310)	E1036	1	Jan
1st Bn 10th Marines	E 1846	2	Feb
2nd MARDIV, MARFORLANT			
Camp Lejeune, NC 28542-0106			

ENCLOSURE (2)

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (M12320)	E1036	1	Aug
2nd Bn, 10th Marines	E1846	2	Mar, Aug
2nd MARDIV, MARFORLANT			
Camp Lejeune, NC 28542-5517			
Commanding Officer (M12330)	E1036	1	Aug
3rd Bn, 10th Marines	E1846	2	Jan, Jun
2nd MARDIV, MARFORLANT			
Camp Lejeune, NC 28542-5518			
Commanding Officer (M12350)	E1036	1	Nov
5th Bn, 10th Marines	E1846	2	May, Nov
2nd MARDIV, MARFORLANT			
PSC Box 20109			
Camp Lejeune, NC 28542-0109			
Commanding Officer (M12400)	B2119	1	Apr
2nd Cmbt Engr Bn			
2nd MARDIV, MARFORLANT			
Camp Lejeune, NC 28542-5522			
Commanding Officer (M13301)	E1036	3	Nov, Jun, Jan
Hq Btry, 12th Marines	E1845	2	Apr, Jul
3rd MARDIV, MARFORPAC			
Unit 36070			
FPO AP 96602-6070			
Commanding Officer (M13310)	E1036	1	Jan
1st Bn, 12th Marines	E 1846	2	Jan, Jul
1st MEB, MARFORPAC			
Box 63024			
MCAS Kaneohe Bay, HI 96863-3024			
Commanding Officer (M13320)	E1846	2	Feb, May
2nd Bn, 12th Marines			
3rd MARDIV, MARFORPAC			
Unit 36080			
FPO AP 96602-6080			

ENCLOSURE (2)

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (M13330) Hq Btry, 3rd Bn, 12th Marines 3rd MARDIV, MARFORPAC Unit 36110 FPO AP 96602-6110	E1846	2	Mar, Jun
Commanding Officer (M13400) 3rd Cmbt Engr Bn 3rd MARDIV, MARFORPAC Unit 36350 FPO AP 96602-6350	B2119	1	Mar
Commanding Officer (M14301) Hq Btry, 14th Marines Building 245 Dabs, TX 75211-9508	E1845	2	May, Dec
Commanding Officer (M14313) A Btry, 1st Bn, 14th Marines N5101 Assembly St., NMCRTC Spokane, WA 99205-6199	E1036	1	Feb
Commanding Officer (M14340) Hq Btry, 14th Marines 1001 4th Ave SW Bessemer, AL 35023	E1 846	1	May
Commanding Officer (M14401) Hq & Svc Co, 4th Cmbt Engr Bn Hamlet and Chesly Avenue MCRTC Baltimore, MD 21234-7499	E1 846	1	Feb
Inspector Instructor (M14601) 1st Bn, 14th Marines 2144 Clements Avenue Alameda, CA 94501-1486	E1846	1	Oct

ENCLOSURE (2)

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (M14641) Hq Btry, 5th Bn, 14th Marines 4th MARDIV, NMCRC 1700 Stadium Way Los Angeles, CA 90012-1404	E1036	1	Apr
Commanding Officer (M20090) BSSG-1, MARFORPAC MCAS Kaneohe Bay, HI 96863-5700	B2120	1	Apr
Commanding Officer (M20362) 2nd Intelligence Co 2nd SRIG, II MEF, MARFORLANT PSC Box 20085 Camp Lejeune, NC 28542-0085	B2118 B2122	2 1	Feb, Jun Apr
Platoon Commander (M20371) 1st Topographic Platoon 1st Intelligence Co 1st SRIG, I MEF, MARFORPAC PSC Box 555321 Camp Pendleton, CA 92054-5321	B2118 B2122	2 1	Mar, Jul Oct
Platoon Commander (M20381) 3rd Topographic Platoon 3rd SRIG, MARFORPAC Unit 35616 FPO AP 96606-5616	B2118 B2122	2 1	Sep, Nov Jun
commanding Officer (M21300) H&S Co, 7th Engr Supt Bn 1st FSSG, MARFORPAC Camp Pendleton, CA 92055-5677	B2119	1	Jun
commanding Officer (M21310) 8th Engr Supt Bn 2nd FSSG, MARFORLANT Camp Lejeune, NC 28542-0131	B2119	1	Nov

ENCLOSURE (2)

<u>Unit</u>	<u>TAMCN</u>	<u>Qty</u>	<u>Month of Calibration</u>
Commanding Officer (M21628) 4th ANGLICO, 4th MARDIV 1226 Marine Drive West Palm Beach FL 33409-6298	E1034	1	Mar
Commanding Officer (M22321) H&S Co, 6th Engr Supt Bn, NMCRC 6735 North Basin Avenue Portland, OR 97217-3993	B2120	1	Mar
Commanding Officer (M27150) 2d LSB, 2d FSSG, MARFORIANT PSC Box 20126 Camp Lejeune, NC 28542-0126	E1034	1	Feb
Commanding Officer (M29040) 3rd Support Bn, 3rd FSSG, MARFORPAC Unit 38416 FPO AP 96604-8416	E1034	1	Feb
Commanding Officer (M29100) 9th Engr Supt Bn 3rd FSSG, MARFORPAC Unit 38438 FPO AP 96604-8438	B2119	1	Jul
Commanding Officer (M54063) Marine Corps Admin Detachment US Army Training Center Fort Leonard Wood, MO 65473-5850	B2119		As Required
Commanding Officer (M54066) Marine Corps Admin Detachment US Army Field Artillery School Fort Sill, OK 73503	E1846	2	As Required
commanding Officer (M93050) Marine Corps Engr School Camp Lejeune, NC 28542-5040	B2120	1	As Required

ENCLOSURE (2)

9/(10blank)

SAMPLE DD FORM 1149

[illegible]

ENCLOSURE (3)

1 / (2 blank)

